

## CONTENTS OF VOLUME 11

### *Number 1*

Opacification: Solving the Fundamental Problems . . . . .	1
MYRON S. SIMON (USA)	
The Synthesis, Application and Prediction of Stokes Shift in Fluorescent Dyes Derived from 1,8-Naphthalic Anhydride . . . . .	13
QIAN XUHONG, ZHU ZHENGHUA & CHEN KONGCHANG (People's Republic of China)	
Synthesis and Characterization of Deep-Coloured Squarylium Dyes for Laser Optical Recording Media . . . . .	21
NOBUHIRO KURAMOTO, KAZUKI NATSUKAWA & KATSUYA ASAO (Japan)	
Disperse Dyes Derived from 3-Oxo-2,3-dihydrobenzo[ <i>b</i> ]thiophene-1,1-dioxide and 3-Dicyanomethylene-2,3-dihydrobenzo[ <i>b</i> ]thiophene-1,1-dioxide . . . . .	37
V. U. SHENOY, V. P. PATEL & S. SESHADRI (India)	
Studies on the Synthesis and Solvatochromic Behaviour of Mono- and Tri-methine Cyanines: Methine Cyanine Dyes, Synthesis and Solvatochromism . . . . .	47
A. I. M. KORAIEM, M. A. EL-MAGHRABY, A. K. KHALAFALLA & H. A. SHINDY (Egypt)	
Violet to Cyan Azo Dyes Derived from 4-Amino-3-nitrobenzaldehyde as Diazo Component . . . . .	65
KASALI A. BELLO (Nigeria) & JOHN GRIFFITHS (UK)	
<b>Short Communication</b>	
Fluorescent Properties of Phthalocyanines . . . . .	77
TAO SHEN, ZHEN-LI YUAN & HUI-JUN XU (People's Republic of China)	

## Number 2

Syntheses and Properties of Some Deeply Coloured Dichroic Anthraquinone Dyes SHIGEO YASUI, MASARU MATSUOKA & TEIJIRO KITAO (Japan)	81
<sup>15</sup> N NMR Investigation of Azo-Hydrazone Acid-Base Equilibria of FD&C Yellow No. 5 (Tartrazine) and Two Analogs SANDRA J. BELL, EUGENE P. MAZZOLA & BRUCE COXON (USA)	93
Synthesis and Characterization of Two Novel Formazan Dyes YAŞAR GÖK (Turkey)	101
Colour and Constitution Relationships in Organic Pigments. Part 2— Disazoacetoacetanilides ROBERT M. CHRISTIE & PAUL N. STANDRING (UK)	109
The Kinetics of the Hydrolysis and Alcoholysis of some Model Monofluorotriazinyl Reactive Dyes LI XIAO-TU, ZHU ZHENG-HUA & CHEN KONG-CHANG (People's Republic of China)	123
Synthesis of Benzimidazo[1,2- <i>a</i> ]-quinolines: Fluorescent Disperse Dyes V. U. SHENOY & S. SESHADRI (India)	137
Von der variantenreichen Chemie des Chinoxalins zu chinoiden und indigoiden Chromophoren. I. Darstellung und Eigenschaften der quartären Salze des 1-substituierten Dimethylchinoxalins und des 1-Methylchinoxalinium-toluol-4- sulfonates D. SCHELZ & N. ROTZLER (Switzerland)	147

## Number 3

Disperse and Cationic Dyes from Aminophenyl-X-Azolo-Pyridines PIERO SAVARINO, GUIDO VISCARDI, ROSARINA CARPIGNANO, ERMANNO BARNI & GIOVANNI FERRERO (Italy)	163
<sup>15</sup> N NMR Study of Azo-Hydrazone Tautomerism of Some Water-soluble Dyes KIYOSHI YAMAMOTO, KIYOSHI NAKAI & TOSHIO KAWAGUCHI (Japan)	173
Solvent and Viscosity Effect on the Kinetics of the Thermal <i>cis-trans</i> Isomerization of 3'-Nitro-4-diethylaminoazobenzene BRUNO MARCANDALLI, PIER LUIGI BELTRAME, ERNESTINA DUBINI-PAGLIA & ALBERTO SEVES (Italy)	179
Interaction between Water-Soluble Polymers and Azo Dyes Containing Fluorine Atoms. I. Monoazo Sulphonated Dyes Containing a Trifluoromethyl Group KUNIHIRO HAMADA, SEIJI TAKE & TOSHIRO IJIMA (Japan)	191

Von der variantenreichen Chemie des Chinoxalins zu chinoiden und indigoiden Chromophoren. II. Darstellung und Eigenschaften der indigoiden Derivate . DIETER SCHELZ (Switzerland)	201
Fluorescence Quenching Studies of the Self-Association in Water of Fluorescent Surfactants. Alkaryl-2-pyrazolines and Alkyl-7-hydroxycoumarins . . . . L. E. AICOLINA, I. H. LEAVER & I. W. STAPLETON (Australia)	213
Low-Temperature Dyeing of Protein and Polyamide Fibres using a Redox System A. BENDAK (Egypt)	233

Number 4

<sup>1</sup> H NMR Study of the Hydrolysis of some Model Pyrimidyl Reactive Dyes . TANG WEI, ZHU ZHENG-HUA, CHEN KONG-CHANG, HE MENG-ZHEN & ZHONG XIN-MAO (People's Republic of China)	243
Von der variantenreichen Chemie des Chinoxalins zu chinoiden und indigoiden Chromophoren. III. Synthesen mit 1-Methylchinoxalinium-toluol-4-sulfonat DIETER SCHELZ (Switzerland)	261
Carrier Dyeing of Polyester Fibre with some Disperse Azo Dyes . . . . A. ARCORIA, A. CERNIANI, R. DE GIORGI, M. L. LONGO & R. M. TOSCANO (Italy)	269
Study of Some Chemical Properties of Sulfonated Vinylsulfonyl Reactive Dyes . ZHU ZHENG-HUA, CHEN KONG-CHANG, LI JIAN-XIONG, CHEN SHU-LING & WANG SHOU-LAN (People's Republic of China)	277
Correlation between Dyeing Rate and Thermodynamic Affinity of Disperse Reactive Dyes . . . . . MARIA RITA DE GIORGI (Italy)	293
New Perylene and Violanthrone Dyestuffs for Fluorescent Collectors . . . G. SEYBOLD & G. WAGENBLAST (FRG)	303
Announcement . . . . .	319

